

ALV™ Low Viscosity Inhibited Fluid

The only glycol based non-toxic alternative to MEG

DESCRIPTION:

Kilfrost ALV is a high performance low viscosity non toxic heat transfer fluid for use in secondary coolant systems. ALV is formulated with bio-derived base fluids listed as GRAS (Generally Recognised as Safe) by the FDA, ASTM D1384-05 proven FDA approved corrosion inhibitors and rheology modifiers, making ALV the only glycol based non-toxic alternative to MEG. The product is specifically engineered to increase both the efficiency and safety of low temperature chilling/cooling equipment and circuits, including those in the food and beverage industry.

It has been formulated to offer greater efficiency levels than Mono Ethylene Glycol (MEG) based fluids. This means that customers now have a genuinely safe, non-toxic, more efficient alternative to Mono Ethylene Glycol. Replacement of more viscous fluids such as Mono Propylene Glycol (MPG) or Glycerine based products in existing systems with Kilfrost ALV will give customers an immediate increase in both pumping and heat transfer efficiency, leading to immediate and sustained energy savings.

ADVANTAGES:

- * Low viscosity, Non-Toxic, bio-derived inhibited antifreeze
- * Contains no carcinogenic, mutagenic or toxic to reproduction additives.
- * Outperforms requirements of ASTM D1384-05 corrosion tests.
- * Offers energy savings and increased heat transfer efficiency than MPG.
- * Biostatic when dosed at the recommended dose rate.
- * Liquid formulation supplied as concentrate.
- * Can be supplied as dilute product (ready to use).

APPLICATION: Add to the system as determined by required freeze point. A minimum 25% product is required in the system to provide adequate corrosion protection.

Freeze Point °C	Product Volume % v/v	Refractive index
-10	25	1.3632
-15	30	1.3679
-20	40	1.3794
-30	50	1.3905
-40	60	1.4031

DOSING EQUIPMENT: A complete range of dosage and control equipment is available to provide the most effective application of water treatment chemicals to your system.

DELIVERY OPTION: Kilfrost ALV™ is packed in 20L kegs, 200L drums and 1,000ltr non-returnable IBC's.

NOTE ON GALVANISED METALS:

Kilfrost ALV™ and any glycol based heat transfer fluids should not be used in systems containing galvanised metals. Glycol based fluids can react with the zinc that is present in galvanised materials leading to physical damage to the operating system and degradation of the heat transfer fluid.

Viscosity Comparison

